

IN THE CLAIMS

1 Claim 1 (Currently Amended) A system for producing liquid compositions,
comprising:

5 a hopper, having an interior compartment, a first opening for receiving soluble materials
and a second opening for the passage of the liquid composition away from the
hopper;

10 a receiving tank, having an interior compartment, and first and second openings; said
first opening of said receiving tank being in open communication with said
second opening of said hopper; said second opening of said receiving tank being
adapted to discharge the liquid composition from said receiving tank; said
receiving tank being operatively pivotably movable with respect to said hopper so
that said receiving tank can be selectively moved between open and closed
positions; and

15 a solids screen having upper and lower surfaces, operatively pivotably movable with
respect to said hopper and said receiving tank between said second opening of
said hopper and said first opening of said receiving tank; and

20 at least one solids screen retaining pin positioned to selectively secure said solids
screen in a position closely adjacent the second opening of said hopper.

25 Claim 2 (Currently Amended) The system of claim 1 further comprising at least
~~one generally elongated~~ receiving tank retaining pin to selectively secure said receiving
tank in its closed position.

 Claim 3 (Cancelled)

1 Claim 4 (Original) The system of claim 1 further comprising a hydraulic assembly, operatively connected to said receiving tank, to selectively move said receiving tank between said open and closed positions.

5 Claim 5 (Original) The system of claim 1 wherein said solids screen is adapted to freely pivot between the second opening of said hopper and the first opening of said receiving tank to selectively provide access to the interior compartments of said hopper and receiving tank and the upper and lower surfaces of said solids screen for cleaning and maintaining the same.

10 Claim 6 (Currently Amended) The system of claim 1 wherein said second opening of said hopper and said first opening of said receiving tank are shaped and sized adapted to be received by the collection bucket of a mobile vehicle.

Claim 7 (Currently Amended) A system for producing liquid compositions, comprising:

15 a hopper, having upper and lower ends, inner and outer surfaces, and forward and rearward sides;

a receiving tank, having an open upper end, a closed lower end, and forward and rearward sides; said receiving tank having a first opening formed therein adjacent the lower end thereof;

20 said lower end of said hopper being in open communication with said open upper end of said receiving tank;

25 at least one elongated spray bar, having a longitudinal axis, operatively rotatably mounted in said hopper adjacent the upper end thereof; said spray bar having a

1 plurality of holes disposed therein to allow fluid to escape therefrom; said spray
2 bar further being adapted to be selectively rotated about said longitudinal axis to
3 selectively control the aim of the plurality of holes formed therein; and
4 a fluid inlet line operatively connected to and in open fluid communication with said
5 spray bar.

6 Claim 8 (Cancelled)

7 Claim 9 (Currently Amended) The system of claim 7 further comprising a motor
8 operatively connected to said spray bar to selectively automate the rotational movement
9 of said spray bar.

10 Claim 10 (Cancelled)

11 Claim 11 (Cancelled)

12 Claim 12 (Currently Amended) The system of claim 24 wherein said spray bar
13 is elongated and has opposite ends and a midpoint between said opposite ends, the
14 diameters of the holes disposed adjacent said midpoint being larger than the diameters
15 of the holes disposed adjacent the opposite ends of said spray bar.

16 Claim 13 (Currently Amended) The system of claim 7 wherein said spray bar is
17 ~~elongated and is~~ further comprised of at least one oscillating spray nozzle disposed
18 along the length of said spray bar.

19 Claim 14 (Cancelled)

20 Claim 15 (Currently Amended) The system of claim 25 further comprising a
21 solids screen, having upper and lower surfaces, operatively pivotally movable with
22 respect to said hopper and said receiving tank.

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1 Claim 16 (Original) The system of claim 15 further comprising at least one
generally elongated receiving tank retaining pin to selectively secure said receiving tank
in its closed position.

5 Claim 17 (Original) The system of claim 16 further comprising at least one
generally elongated solids screen retaining pin to selectively secure said solids screen
in a position closely adjacent said second opening of said hopper.

Claim 18 (Original) The system of claim 17 further comprising a hydraulic
assembly, operatively connected to said receiving tank, to selectively move said
receiving tank between said open and closed positions.

10 Claim 19 (Original) The system of claim 15 wherein said solids screen is
adapted to freely pivot between the lower end of said hopper and the upper end of said
receiving tank to selectively provide access to the inner surfaces of said hopper and
receiving tank and the upper and lower surfaces of said solids screen for the cleaning
15 and maintenance of the same.

Claim 20 (Currently Amended) The system of claim 7 wherein said lower end of
said hopper and said upper end of said receiving tank are shaped and sized adapted to
be received by the collection bucket of a mobile vehicle.

20 Claim 21 (Original) The system of claim 7 wherein at least one observation
window is formed in the outer surface of the hopper to provide visual access to the
interior of the hopper.

1 Claim 22 (Original) The system of claim 7 further comprising a float switch
operatively connected to the inner surface of said hopper to detect and relay information
regarding fluid levels within said hopper.

5 Claim 23 (New) A system for producing liquid compositions, comprising:
a hopper, having upper and lower ends, inner and outer surfaces, and forward and
rearward sides;
a receiving tank, having an open upper end, a closed lower end, and forward and
rearward sides; said receiving tank having a first opening formed therein adjacent
the lower end thereof;
10 said lower end of said hopper being in open communication with said open upper end of
said receiving tank;
at least one elongated spray bar, having opposite ends and a midpoint between said
opposite ends, operatively rotatably mounted in said hopper adjacent the upper
end thereof; said spray bar having a plurality of holes disposed therein to allow
15 fluid to escape therefrom; said plurality of holes being disposed along a length of
said spray bar in spaced relation to one another so that a distance between the
holes proximate the midpoint is smaller than a distance between the holes
proximate one of the opposite ends of said spray bar; and
20 a fluid inlet line operatively connected to and in open fluid communication with said
spray bar.

Claim 24 (New) A system for producing liquid compositions, comprising:

1 a hopper, having upper and lower ends, inner and outer surfaces, and forward and rearward sides;

5 a receiving tank, having an open upper end, a closed lower end, and forward and rearward sides; said receiving tank having a first opening formed therein adjacent the lower end thereof;

said lower end of said hopper being in open communication with said open upper end of said receiving tank;

10 at least one spray bar operatively rotatably mounted in said hopper adjacent the upper end thereof; said spray bar having a plurality of holes disposed therein to allow fluid to escape therefrom; said plurality of holes being sized to vary in diameter; and

15 a fluid inlet line operatively connected to and in open fluid communication with said spray bar.

Claim 25 (New) A system for producing liquid compositions, comprising:

a hopper, having upper and lower ends, inner and outer surfaces, and forward and rearward sides;

20 a receiving tank, having an open upper end, a closed lower end, and forward and rearward sides; said receiving tank having a first opening formed therein adjacent the lower end thereof; said receiving tank further being operatively pivotally movable with respect to said hopper so that said receiving tank may be selectively pivoted between open and closed positions;

said lower end of said hopper being in open communication with said open upper end of

1 said receiving tank;

at least one spray bar operatively rotatably mounted in said hopper adjacent the upper

end thereof; said spray bar having a plurality of holes disposed therein to allow

5 fluid to escape therefrom; and

a fluid inlet line operatively connected to and in open fluid communication with said

spray bar.

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